

ESM-00-003



September 12, 2001

To: Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Fr: George O. Saile, Reg. No. 19,572  
20 McIntosh Drive  
Poughkeepsie, N.Y. 12603

Subject:

Serial No. 09/898,385 07/05/01

David Paul Jones, Richard Bullock

OPAQUE SHIELDING ELEMENT FOR LIQUID  
CRYSTAL DISPLAY

Grp. Art Unit: 2871

#### INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation  
In An Application.

The following Patents and/or Publications are submitted to  
comply with the duty of disclosure under CFR 1.97-1.99 and  
37 CFR 1.56. Copies of each document is included herewith.

U.S. Patent 5,337,068 to Stewart et al., "Field-Sequential  
Display System Utilizing a Backlit LCD Pixel Array and Method  
for Forming an Image", discloses a back-lighted LCD.

U.S. Patent 5,990,999 to Yeo, "Liquid Crystal Display with  
a Protection Layer Formed by the Layer Used to Form the Pixel  
Electrode," discloses an LCD with a protective layer.

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The following two U.S. Patents disclose LCDs based on amorphous silicon TFTs, with black matrix layers of opaque resin located over the active devices on the far side away from the lower plate:

- 1) U.S. Patent 5,866,919 to Kwon et al., "TFT Array Having Planarized Light Shielding Element".
- 2) U.S. Patent 5,926,702 to Kwon et al., "Method of Fabricating TFT Array Substrate".

U.S. Patent 5,666,177 to Hsieh et al., "Black Matrix for Liquid Crystal Display," discusses a conducting black matrix used in LCD structures.

U.S. Patent 5,721,599 to Cheng, "Black Matarix for Liquid Crystal Display", discusses an electrically conductive black matrix located so as to be in contact with the common electrode.

U.S. Patent 6,057,896 to Rho et al., "Liquid Crystal Displays Using Organic Insulating Material for a Passivation Layer and/or a Gate Insulating Layer and Manufacturing Methods Thereof", discloses a passivation layer formed by coating a flowable insulating material on the substrate where a thin film transistor and a storage capacitor electrode, and a pixel electrode is formed on the passivation layer.

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U.S. Patent 6,057,586 to Bawolek et al., "Method and Apparatus for Employing a Light Shield to Modulate Pixel Color Responsivity", discloses a light shielding layer for a light sensor.

Sincerely,

A handwritten signature in dark ink, appearing to read 'SBA', with a long horizontal stroke extending to the right.

Stephen B. Ackerman,  
Reg. No. 37761